



Federal Emergency Management Agency

Washington, D.C. 20472

August 16, 2011

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Bob Wasserman
Mayor, City of Fremont
3300 Capitol Avenue
Fremont, CA 94538

IN REPLY REFER TO:

Case No.: 11-09-0580P
Community Name: City of Fremont, CA
Community No.: 065028
Effective Date of
This Revision: August 16, 2011

Dear Mayor Wasserman:

The Flood Insurance Study report and Flood Insurance Rate Map for your community have been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panel(s) revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed which provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments specific to this request may be included as referenced in the Determination Document. If you have any questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP) in general, please contact the Consultation Coordination Officer for your community. If you have any technical questions regarding this LOMR, please contact the Director, Mitigation Division of the Department of Homeland Security's Federal Emergency Management Agency (FEMA) in Oakland, California, at (510) 627-7175, or the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Sincerely,

Beth A Norton

Beth A. Norton, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

For: Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration

List of Enclosures:

Letter of Map Revision Determination Document
Annotated Flood Insurance Rate Map
Annotated Flood Insurance Study Report

cc: Mr. Norm Hughes, P.E.
City Engineer
City of Fremont

Ms. Diana Cangco, P.E.
Civil Engineer II
City of Fremont



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

| COMMUNITY AND REVISION INFORMATION | | PROJECT DESCRIPTION | BASIS OF REQUEST |
|--|---|--|---|
| COMMUNITY | City of Fremont Alameda County California | NO PROJECT | HYDROLOGIC ANALYSIS HYDRAULIC ANALYSIS NEW TOPOGRAPHIC DATA |
| | COMMUNITY NO.: 065028 | | |
| IDENTIFIER | Crandall Creek (Line K, Zone 5) from I-880 to Decoto Road | APPROXIMATE LATITUDE & LONGITUDE: 37.565, -122.039 SOURCE: USGS QUADRANGLE DATUM: NAD 83 | |
| ANNOTATED MAPPING ENCLOSURES | | ANNOTATED STUDY ENCLOSURES | |
| TYPE: FIRM* NO.: 06001C0433G DATE: August 3, 2009 TYPE: FIRM* NO.: 06001C0434G DATE: August 3, 2009 | | DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: August 3, 2009 PROFILE(S): 192P SUMMARY OF DISCHARGES TABLE: 4 | |

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map; ** FBFM - Flood Boundary and Floodway Map; *** FHBM - Flood Hazard Boundary Map

FLOODING SOURCE(S) & REVISED REACH(ES)

Line K (Zone 5) – from approximately 220 feet downstream of Interstate Highway 880 to just downstream of Fremont Boulevard

SUMMARY OF REVISIONS

| Flooding Source | Effective Flooding | Revised Flooding | Increases | Decreases |
|-----------------|--------------------|------------------|-----------|-----------|
| Line K (Zone 5) | Zone A | Zone AE | YES | NONE |
| | No BFEs* | BFEs | YES | NONE |

* BFEs - Base Flood Elevations

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 7390 Coca Cola Drive, Suite 204, Hanover, MD 21076. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Beth A. Norton

Beth A. Norton, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

122451 PT202.02.BKR.11090580P.H15 102-I-A-C



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 7390 Coca Cola Drive, Suite 204, Hanover, MD 21076. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

A handwritten signature in cursive script that reads "Beth A. Norton".

Beth A. Norton, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

122451 PT202.02.BKR.11090580P.H15 102-I-A-C



Federal Emergency Management Agency
Washington, D.C. 20472

**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Ms. Sally M. Ziolkowski
Director, Mitigation Division
Federal Emergency Management Agency, Region IX
1111 Broadway Street, Suite 1200
Oakland, CA 94607-4052
(510) 627-7175

STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panel(s) and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 7390 Coca Cola Drive, Suite 204, Hanover, MD 21076. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Beth A. Norton

Beth A. Norton, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

122451 PT202.02.BKR.11090580P.H15 102-I-A-C



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

PUBLIC NOTIFICATION OF REVISION

PUBLIC NOTIFICATION

| FLOODING SOURCE | LOCATION OF REFERENCED ELEVATION | BFE (FEET NAVD 88) | | MAP PANEL NUMBER(S) |
|-----------------|---|--------------------|---------|---------------------|
| | | EFFECTIVE | REVISED | |
| Line K (Zone 5) | Just upstream of Interstate Highway 880 | NONE | 23 | 06001C0433G |
| | Just downstream of Fremont Boulevard | NONE | 30 | 06001C0434G |

Within 90 days of the second publication in the local newspaper, a citizen may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. This revision is effective as of the date of this letter. However, until the 90-day period has elapsed, the revised BFEs presented in this LOMR may be changed

A notice of changes will be published in the *Federal Register*. A short notice also will be published in your local newspaper on or about the dates listed below. Please refer to FEMA's website at https://www.floodmaps.fema.gov/fhtm/Scripts/bfe_main.asp for a more detailed description of proposed BFE changes, which will be posted within a week of the date of this letter.

LOCAL NEWSPAPER

Name: *The Fremont Argus*

Dates: August 25, 2011 and September 1, 2011

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 7390 Coca Cola Drive, Suite 204, Hanover, MD 21076. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Beth A. Norton

Beth A. Norton, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

122451 PT202.02.BKR.11090580P.H15 102-I-A-C

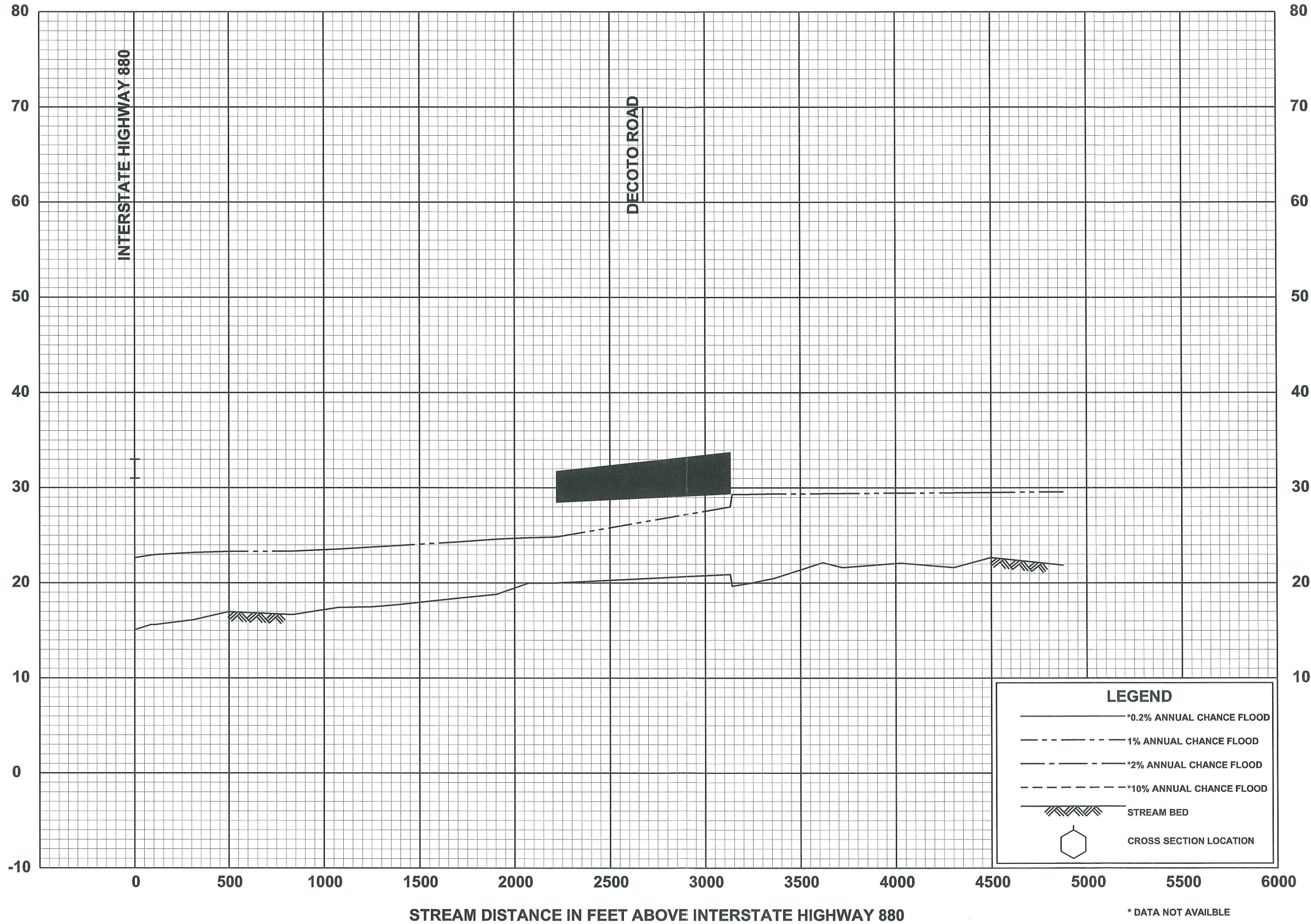
TABLE 4 - SUMMARY OF DISCHARGES - continued

| FLOODING SOURCE AND LOCATION | DRAINAGE AREA (sq. miles) | PEAK DISCHARGES (cfs) | | | |
|--|---------------------------------|-----------------------|-----------|--------------------|--------------------|
| | | 10-PERCENT | 2-PERCENT | 1-PERCENT | 0.2 PERCENT |
| REVISED TO REFLECT LOMR EFFECTIVE: August 16, 2011 | | | | | |
| LINE K (ZONE 5) (CRANDALL CREEK) | | | | | |
| At mouth | 4.0 | 760 | 1,300 | 1,600 | 2,900 |
| Upstream of Newark Boulevard | 2.7 | 630 | 1,000 | 1,200 | 2,300 |
| Downstream of confluence with Line K-4 (Zone 5) | 2.5 | 620 | 980 | 1,200 | 2,200 |
| At Nimitz Freeway | 2.00 | 370 | 660 | 780 | 1,040 |
| At Decoto Road | 1.32 | 280 | 490 | 580 | 760 |
| At Fremont Boulevard | 0.87 | 220 | 370 | 430 | 560 |
| LINE K (ZONE 6) | | | | | |
| Downstream of Line K-1 (Zone 6) | 3.22 | * | * | 1,670 ¹ | 1,800 ¹ |
| Upstream of Line K-1 (Zone 6) | 2.14 | * | * | 1,795 | 2,000 |
| At Interstate 680 | 2.04 | * | * | 1,200 | 1,500 |
| Upstream of Interstate 680 | 1.75 | * | * | 1,200 | 1,400 |
| Upstream of Osgood Road | 1.70 | * | * | 1,200 | 1,400 |
| At Paseo Padre Parkway | 1.60 | * | * | 1,100 | 1,400 |
| LINE L (ZONE 6) (MISSION CREEK) | | | | | |
| Downstream of confluence with Line L-1 (Zone 6) | 10.2 | 990 | 2,000 | 2,500 | 4,200 |
| Upstream of confluence with Line L-1 (Zone 6) | 9.3 | 860 | 1,800 | 2,300 | 3,700 |
| Downstream of confluence with Line M (Zone 6) (Morrison Canyon) | 8.7 | 790 | 1,700 | 2,200 | 3,400 |
| Upstream of confluence with Line M-1 (Zone 6) | 7.5 | 710 | 1,500 | 2,000 | 3,100 |
| At Driscoll Road | 5.4 | 510 | 1,100 | 1,500 | 2,500 |
| Downstream of confluence with Line L-7 (Zone 6) | 4.9 | 420 | 980 | 1,300 | 2,200 |
| At Mission Boulevard | 2.7 | 250 | 600 | 830 | 1,500 |


 Revised Data
¹Decrease in flow with increase in area is result of spill

*Data not available

ELEVATION IN FEET (NAVD 88)



LEGEND

- *0.2% ANNUAL CHANCE FLOOD
- - - 1% ANNUAL CHANCE FLOOD
- . - 2% ANNUAL CHANCE FLOOD
- - - - 10% ANNUAL CHANCE FLOOD
- /// STREAM BED
- ⬡ CROSS SECTION LOCATION

* DATA NOT AVAILABLE

REVISED TO
REFLECT LOMR
EFFECTIVE: August 16, 2011

FLOOD PROFILES

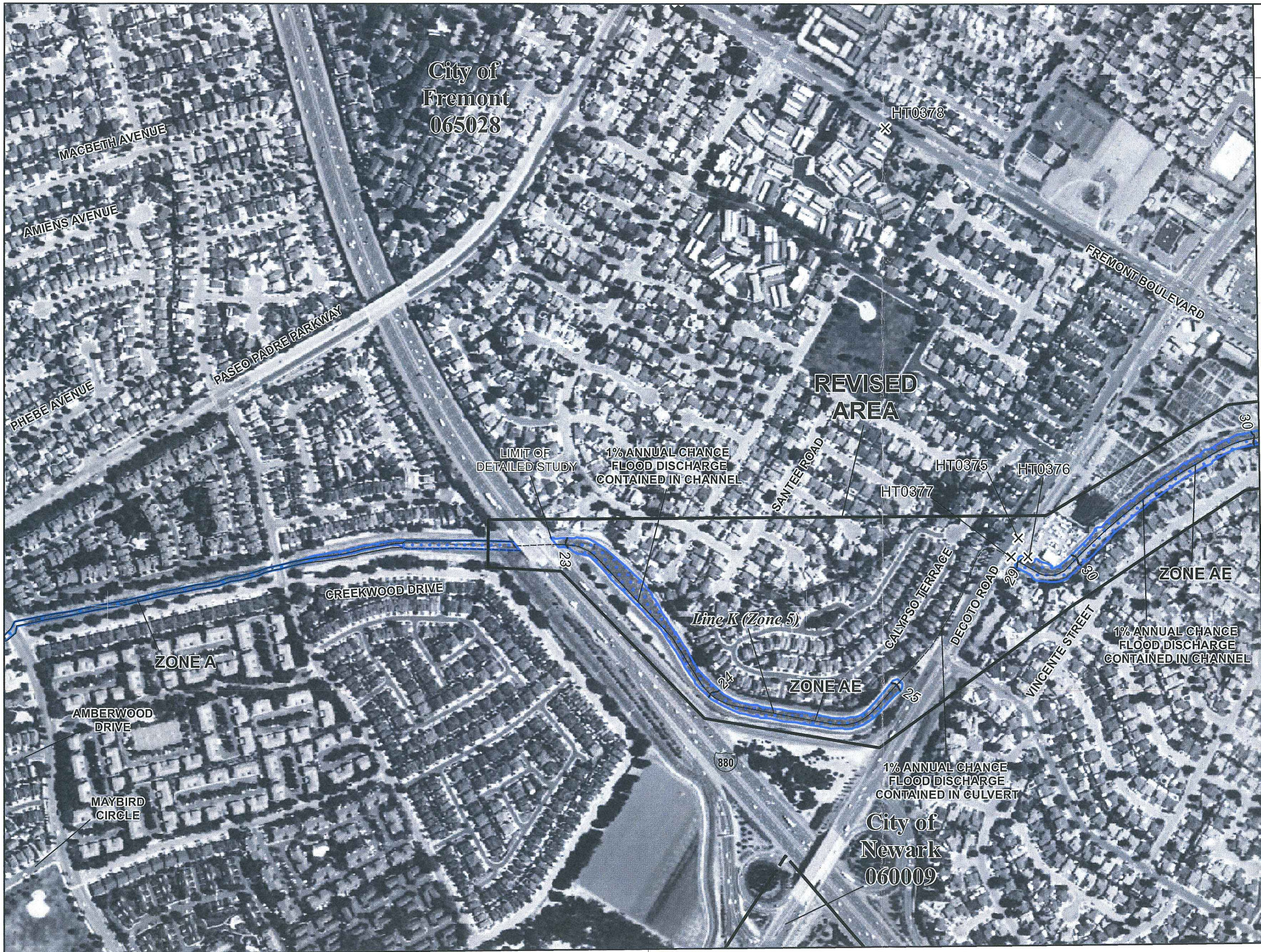
LINE K (ZONE 5)

FEDERAL EMERGENCY MANAGEMENT AGENCY

ALAMEDA COUNTY, CA

(ALL JURISDICTIONS)

192P



2035000 FT

JOINS PANEL 0434

Legend

- 1% annual chance (100-Year) Floodplain
- 1% annual chance (100-Year) Floodway
- 0.2% annual chance (500-Year) Floodplain

MAP SCALE 1" = 500'

250 0 500 FEET

150 0 150 METERS

PANEL 0433G

FIRM

FLOOD INSURANCE RATE MAP

ALAMEDA COUNTY, CALIFORNIA

AND INCORPORATED AREAS

PANEL 433 OF 725

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|---------------------|--------|-------|--------|
| FREMONT, CITY OF | 065028 | 0433 | G |
| NEWARK, CITY OF | 060009 | 0433 | G |
| UNION CITY, CITY OF | 060014 | 0433 | G |

REVISED TO REFLECT LOMR

EFFECTIVE: August 16, 2011

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER

06001C0433G

EFFECTIVE DATE

AUGUST 3, 2009

Federal Emergency Management Agency




JOINS PANEL 0441

6115000 FT

37°33'45.0"

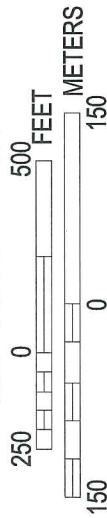
122°01'49.0"

Legend

-  1% annual chance
(100-Year) Floodplain
-  1% annual chance
(100-Year) Floodway
-  0.2% annual chance
(500-Year) Floodplain



MAP SCALE 1" = 500'



NFIP

PANEL 0434G

NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

ALAMEDA COUNTY,
CALIFORNIA
AND INCORPORATED AREAS

PANEL 434 OF 725

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|---------------------|--------|-------|--------|
| FREMONT CITY OF | 065028 | 0434 | G |
| UNION CITY, CITY OF | 060014 | 0434 | G |

**REVISED TO
REFLECT LOMR
EFFECTIVE: August 16, 2011**

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
06001C0434G
EFFECTIVE DATE
AUGUST 3, 2009

Federal Emergency Management Agency

2035000 FT

JOINS PANEL 0433

